

## **Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

### **Listing of claims:**

1. (Currently amended) Sensor for picking up sound from a body, comprising
  - an acoustoelectric transducer member  $[(4,7)]$  for converting sound vibrations to electrical output signals $[[, \text{ and } ]]$  ;
  - a viscoelastic unit  $[(2)]$  arranged as an adaptation medium between a body surface and the transducer member  $[(4,7),]$  and in such a manner that a front surface of said unit  $[(2)]$  is arranged to be brought to direct engagement with the body surface $[[, ]]$  ;
  - ~~characterized in that~~
    - ~~-wherein~~ said acoustoelectric transducer member is ~~constituted by~~ comprised of at least one piezoelectric member  $[(4,7)]$  surrounding tightly the lateral surface of the viscoelastic unit, said viscoelastic unit  $[(2)]$  having a cylindrical outer shape $[[, ]]$ ; and  $[[\text{that}]]$
    - the viscoelastic unit engages tightly in its rear end area, a hard back piece  $[(1)]$ .
2. (Currently amended) The sensor of claim 1, ~~characterized in that~~ wherein said acoustic transducer member is ~~constituted by~~ comprised of at least one thin piezoelectric foil  $[(4,7)]$ .
3. (Currently amended) The sensor of claim 2, ~~characterized in that~~ wherein said acoustic transducer member is ~~constituted by~~ comprised of two concentrically

arranged piezoelectric foils ~~(4,7), possibly having~~ and an electrically conductive foil ~~[[6]]~~ therebetween.

4. (Currently amended) The sensor of claim 3, ~~characterized in that~~ wherein the intermediate electrically conductive foil is ~~constituted by~~ comprised of a double-sided adhesive and electrically conductive tape ~~[[6]]~~.

5. (Currently amended) The sensor of ~~one of claims 2-4,~~ claim 2, wherein said piezoelectric foil is ~~constituted by~~ comprised of a flat foil laid around the viscoelastic unit in such a manner that adjacent edges are fixed by an adhesive tape.

6. (Currently amended) The sensor of ~~one of claims 2-4,~~ wherein the piezoelectric foil/the piezoelectric foils have a cylindrical shape, and have been threaded tightly onto the viscoelastic unit.

7. (Currently amended) The sensor of claim 1, ~~characterized in that~~ wherein the acoustic transducer member is ~~constituted by~~ comprised of a ceramic ring with a piezoelectric effect.

8. (Currently amended) The sensor of ~~one of the previous claims,~~ of claim 1, wherein said back piece ~~[[1]]~~ and said viscoelastic unit ~~[[2]]~~ in the rear end area have precisely complementary shapes comprising an interface that is substantially conically shaped and pointing in a forward direction.

9. (Currently amended) ~~Use of a sensor as defined in one of the previous claims, as a sensor element in an electronic stethoscope~~ The sensor of claim 1, further comprised of a stethoscope, into which said sensor is mounted.

10. (Currently amended) An electronic stethoscope comprising a head set with ear phones having loudspeakers, a hand-held sound pick-up module ~~[[15]]~~ with

a sensor element [(10)] and electronic amplifier circuitry [(18)], as well as a connection lead between said module [(15)] and said headset, wherein ~~characterized in that~~ the sensor element [(10)] is a sensor for picking up sound from a body, and is comprised of: ~~comprising~~

- an acoustoelectric transducer member [(4,7)] for converting sound vibrations to electric output signals, and
- a viscoelastic unit [(2)] arranged as an adaptation medium between a body surface and said transducer member [(4,7)], and in such a manner that a front surface of said unit [(2)] is arranged to be brought to direct engagement with the body surface, -said acoustoelectric transducer member being ~~constituted by~~ comprised of at least one piezoelectric member [(4,7)] surrounding tightly the lateral surface of the viscoelastic unit, said viscoelastic unit [(2)] having a cylindrical outer shape, and
- said viscoelastic unit [(2)] ~~engaging tightly~~ engages in its rear end area, a hard back piece [(1)].